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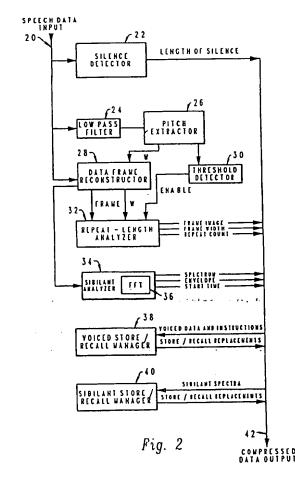
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## **EUROPEAN PATENT APPLICATION**

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- (71) Applicant: International Business Machines Corporation Armonk, N.Y. 10504 (US)
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- (54) Method and system for speech data compression and regeneration
- A method and system for creating a compressed data representation of a human speech utterance which may be utilized to accurately regenerate the human speech utterance. First, the location and occurrence of each period of silence, voiced sound and unvoiced sound within the speech utterance is detected. Next, a single representative data frame which may be repetitively utilized to approximate each voiced sound is iteratively determined, along with the duration of each voiced sound. The spectral content of each unvoiced sound, along with variations in the amplitude thereof is also determined. A compressed data presentation is then created which includes encoded representations of a duration of each period of silence, a duration and single representative data frame for each voiced sound and a spectral content and amplitude variations for each unvoiced sound. The compressed data representation may then be utilized to regenerate the speech utterance without substantial loss in intelligibility.



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## **EUROPEAN SEARCH REPORT**

Application Number EP 93 48 0214

ategory	Citation of document with indication, where appropriate, of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
Y .	WO-A-88 00754 (NCR C * abstract; claims 1 3,9,10,13 *	0) 28 January 1988	1-14	G10L3/00 G10L3/02
<b>'</b>	WO-A-91 14162 (ICHIK 1991 * abstract; claim 1	AWA KOZO) 19 September	1-14	· · · · · · · · · · · · · · · · · · ·
	US-A-5 140 639 (SPRA 18 August 1992 * column 1, line 31	GUE RICHARD P ET AL)  - line 40 *	1	
1	EP-A-0 260 053 (AMER TELEGRAPH) 16 March * abstract *		1	
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				TECHNICAL FIELDS
				SEARCHED (Int.Cl.5)
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The present search report has been drawn up for all claims  Place of search  Date of completing of the search			1	Examiner
	THE HAGUE	26 January 1996	Vai	n Doremalen, J
Y: pa	CATEGORY OF CITED DOCUMEN uticularly relevant if taken alone urticularly relevant if combined with ano ocument of the same category	T: theory or princip E: earlier patent do	ole underlying the cussent, but pub- late in the application	e Invention Hished on, or

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